Project/Site:	Pig's Eye Rail Yar	d					Date: 11/18	/2005		
Applicant/Owner:	Marathon Petrole						County: Ramsey			
Investigator:	KSW						State: MN			
	tances exist on the	cita?		-	No		Community ID Transect ID:	Wella	nd A	
			ifion)?				Plot ID:	SB-1		
	ntly disturbed (atypi	icai sitos	mon):		V V					
is there a potential				LJ E	Y.)	Circular 39 Type: 2/3/1			<u>'1</u>	
(ii needed, explaii	t on reverse).				- conference of		Cowardin:	PEI	VIB/C/FO/	<u> </u>
VEGETATION										
Dominant Plant S	Species	<u>%</u> Cover	Stratum	Indicator		Other Plant Species		<u>%</u> Cover	Stratum	<u>Indicator</u>
1. Phalaris arundina	асеа	80	<u>H</u>	FACW+	1.	Typha species	······································	10	<u>H</u>	OBL
2. Populus delloide:	\$	5	S/S	FAC+	2.	Urtica dioica		5	<u> </u>	FAC+
3.					3.	Cirsium arvense	······································	3	Н	FACU
4.					4.	Nepeta cataria		2	<u> </u>	FAC-
5.					5.					
6.					6.					
7.					7.					
8.					8.					
9.					9.					
10.			. A. I. I	- A A	10			<i></i>		
Percent of domination (excluding FAC-)	ant species that are	OBL, F	4CW of F		100					
Remarks:		***************************************		·····						
HYDROLOGY								oodooxidk####		
Recorded da	ata (describe in ren	narks):				Wetland Hydrology				
Stream,	lake, or tide gauge					Primary Indica				
✓ Aerial pl	notographs					☐ Inund ☑ Satur	ated ated in upper 12	inches		
Other						(1)	r marks	, ,,,,,,,,,		
☐ No recorded	l data available				- Colodo	☐ Drift li	ines nent deposits			
Field Observation	is:					· · · · · · · · · · · · · · · · · · ·	age patterns in	wetland		
Depth of surfa	ice water: None	,,,,i,,		(i	in.)	Secondary Inc	dicators (2 or mo	ore requ	ired):	
Depth to free	water in pit: 16			(in.)	1	zed root channe			hes
Depth to satu	rated soil: 9			(in.)	لبين ا	r-stained leaves			
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			E famed	l soll survey data neutral test	1		
						E	r (explain in rem	arks)		
Remarks:		****		<u></u>		<u> Aanoocoonemaanaanaanaanaanaanaanaanaanaanaanaanaan</u>				
1										

viap unit name series and phase):		Drainage class):	
sence and hussel.		we will fingly with the		<u>Yes</u> <u>No</u>
Faxonomy (subgroup):		Field observat	ions confirm map type?	
Profile Description:				
Depth (inches) Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-6	10YR2/1			sandy muck
6-12	10YR5/3	5YR4/6	10%	sand (sediment) w/gravel
12-31	10YR3/1			mucky clay
☐ Histosol ☑ Histic epipedon ☐ Sulfidic odor ☐ Aquic moisture regir	ne	Organ	organic content in surface sic streaking in sandy soils on Local Hydric Soils Lis	3
Reducing conditions Gleyed or low-chron Remarks: The 6-12 inch layer indicates soils	na colors are disturbed.	☐ Listed	on National Hydric Soils (explain in remarks)	1.jst
Reducing conditions Gleyed or low-chron Remarks:	na colors are disturbed.	☐ Listed	on National Hydric Solls	
Reducing conditions Gleyed or low-chron Remarks: The 6-12 inch layer indicates soils a	na colors are disturbed. ON Yes No	Listed	on National Hydric Solls (explain in remarks)	Yes No
Reducing conditions Gleyed or low-chron Remarks: The 6-12 inch layer indicates soils a WETLAND DETERMINATIO Hydrophytic vegetation present?	na colors are disturbed. N Yes No 1	Listed	on National Hydric Solls	
Reducing conditions Gleyed or low-chron Remarks: The 6-12 inch layer indicates soils a	na colors are disturbed. ON Yes No	Listed	on National Hydric Solls (explain in remarks)	Yes No

ig's Eye Rail Yard larathon Petroleur SW nces exist on the s y disturbed (atypic oblem area? n reverse).	m site?	ation)?		No.		County: Rams State: MN Community ID Transect ID: Plot ID: Circular 39 Ty Cowardin:	Wetlar SB-2	nd A-upla	nd
SW nces exist on the sy disturbed (atypic oblem area? n reverse).	site? cal situa % Cover			_ Z]		Community ID Transect ID: Plot ID: Circular 39 Ty	SB-2	nd A-uplai	nd
y disturbed (atypic oblem area? n reverse). cles	cal situa			_ Z]		Transect ID: Plot ID: Circular 39 Ty	SB-2	nd A-upla	nd
inii	Cover	Stratum	****	T					
inii	Cover	Stratum	······ ·	1					***************************************
	30	<u>Н</u> Н	UPL FACW+	1. 2.	Other Plant Species Cirsium arvense	3-001/A-01/A-01/A-01/A-01/A-01/A-01/A-01/	% Cover · 10	Stratum H	Indicator FACU
	20	Н	FAC-	3.					
	10	8/8	FAC+	4.					
				5.					
				6.					
				1					
				1					
species marare	OBL, F	4CAA OI I		50					
(describe in rem	arks):				,				
ke, or tide gauge									
ographs					Satur	ated in upper 12	2 inches		
ata available					Sedin	nent deposits			
			e.		☐ Drain	age patterns in	wetland	:	
***************************************				Ė	•				
ter in pit: None	,_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	w						per 12 inc	thes
ed soil: None			(i	in.)	Local	soil survey dat neutral test	а		
	(describe in rem ke, or tide gauge ographs ata available water: None tter in pit: None	(describe in remarks): ke, or tide gauge ographs ata available water: None tter in pit: None	(describe in remarks): ke, or tide gauge ographs ata available water: None tter in pit: None	(describe in remarks): ke, or tide gauge ographs ata available water: None (internation in pit: None (internation in pi	7. 8. 9. 10 species that are OBL, FACW or FAC (describe in remarks): ke, or tide gauge ographs ata available e water: None (in.) tter in pit: None (in.)	(describe in remarks): (describe in remarks): (e, or tide gauge ographs ata available water: None water: None ter in pit: None ed soil: None (in.) 7. 8. 9. 10. Wetland Hydrology Primary Indica Inund Satura Water Satura Orift in Secondary Inc. Oxidized Cocal Cocal FAC-	7. 8. 9. 10. species that are OBL, FACW or FAC (describe in remarks): (e, or tide gauge ographs ata available water: None ter in pit: None ed soil: None (in.) 7. 8. 9. 10. Wetland Hydrology Indicators: Primary Indicators: Inundated Saturated in upper 12 Water marks Drift lines Sediment deposits Dralnage patterns in Secondary Indicators (2 or mater in pit: None Water-stained leaves Local soil survey dat FAC-neutral test	7. 8. 9. 10.	7. 8. 9. 10. species that are OBL, FACW or FAC (describe in remarks): (e, or tide gauge

/lap unit name series and phase):		Drainage class	s:			
Faxonomy (subgroup):		Field observat	ions confirm map type?	Yes No		
Profile Description:						
Depth (inches) Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.		
0-12	10YR4/3	10YR4/4		sandy loam w/gravel		
12+				rock refusal		
Sulfidic odor Aquic moisture n Reducing conditi Gleyed or low-ch	ons	☐ Listed	ilc streaking in sandy soils on Local Hydric Soils Lis on National Hydric Soils (explain in remarks)	t		
WETLAND DETERMINAT	TION					
	<u>Yes</u> <u>No</u>			Yes No		
WETLAND DETERMINAT	<u>Yes</u> <u>No</u>	Is this sampling	point within a wetland?	Yes No □ ☑		
WETLAND DETERMINATE Hydrophytic vegetation present Wetland hydrology present?	<u>Yes</u> <u>No</u>	Is this sampling	point within a wetland?			

Project/Site:	Pig's Eye Rail Yar	j					Date:	11/18/	2005	
Applicant/Owner:	Marathon Petroleu						County:	Rams	ey	
Investigator:	KSW	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***********				State:	MN		
Do normal circums			tion)?		Z Z Z		Commun Transect Plot ID: Circular Coward	t ID: 39 Typ	\$B-3	
VEGETATION							,, <u>,,,,,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Dominant Plant S 1. Populus delloides 2. 3. 4. 5. 6. 7. 8. 9. 10. Percent of domina (excluding FAC-) Remarks: bare soil recently	ant species that are	% Cover 10	Stratum S/S		1. 2. 3. 4. 5. 6. 7. 8. 9. 10					
HYDROLOGY			4.5					<u> </u>		
	ata (describe in ren	ıarks):	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Wetland Hydrolog	y Indicato	rs:		
	lake, or tide gauge					Primary Indica				
	hotographs					✓ Inund	lated rated in up	oper 12	inches	
☐ Other							r marks	- gr -er 186		
☐ No recorded	l data available					☐ Drift!	lines ment depo	nelte		
Field Observation	าร:						nent dept age patte		wetland	
Depth of surfa	ace water: <1			(i	in.)	Secondary In	dicators (2 or mo	ore required):	
Depth to free	water in pit: 0			(in.)	Oxid	ized root	channe	ls in upper 12 inc	nes
Depth to satu				(in.)	☐ Wate ☐ Loca ☐ FAC	er-stained Il soll surv -neutral te er (explain	leaves ey data est	; 3	
Remarks:				-						

SOILS Map unit name Drainage class: (series and phase): <u>Yes</u> No Field observations confirm map type? Taxonomy (subgroup): Profile Description: Texture, Concretions, Mottle **Mottle Colors** Matrix Color Depth Structure, etc. Abundance/Contrast (Munsell Moist) (Munsell Moist) Horizon (inches) sandy clay 10% 10YR5/6 10YR4/2 0-6 rock refusal Hydric Soll Indicators: Concretions | Histosol High organic content in surface layer in sandy soil ☐ Histic epipedon Organic streaking in sandy soils Sulfidic odor Listed on Local Hydric Soils List Aquic moisture regime Listed on National Hydric Soils List Reducing conditions Other (explain in remarks) ✓ Gleyed or low-chroma colors Remarks:

This is small area (10 ft long x 3 ft wide) was recently graded allowing a pocket of 1/2 inch thickness of ice two feet upslope from Wetland A between the berm and Wetland A. This area had wetland characteristics at the time of the site visit, however, it is likely that water flows downslope into Wetland A during the growing season, rather than ponding for a long duration. An additional site

<u>No</u>

Yes

V

visit during the growing season is recommended to verify whether it is wetland.

<u>No</u>

<u>Yes</u>

Is this sampling point within a wetland?

SB-3

WETLAND DETERMINATION

Hydrophytic vegetation present?

Wetland hydrology present?

Hydric soils present?

Remarks:

Project/Site:	Pig's Eye Ra	il Yard			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Date: 11	/18/2005	
Project/olte: Applicant/Owner:	Marathon Pe	***************************************					County: Ra	amsey	
Applicantrowner. Investigator:	KSW	40100111		······································			State: Mi		
investigator:	NOW				lo.		Community	ID SR-4	
Do normal circums	tancoe eviet o	n the site?			_ ₩		Transect ID		
is the site significa			tion\?		 Z]		Plot ID:	SB-4	
			u <i>011</i> 71		<u></u>			, , , , , , , , , , , , , , , , , , , 	
Is there a potential (If needed, explair		ı			្		Circular 39	Type:	
(IT needed, explain	i dii tevelee).						Cowardin:		
VEGETATION									
PLGETATION		%	<u> </u>		Г				
Dominant Plant 9	pecies	Cover	Stratum	Indicator					
1. Populus deltoide	\$	10	SIS	FAC+	1.				
2.					2.				
3.					3.				
4.					4.				
5.					5.				
6.					6.				
7.					7.				
8.					8.				
9.					9.				
10.					10	• •			
Percent of domin	ant species the	at are OBL, F	ACW or F	FAC	100	•			
(excluding FAC-)					100		***************************************		
Remarks: bare soil recently	oraded								
bare son recently	giawou								
									-
HYDROLOGY									Marie 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
	ata (describe	in remarks):	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************		Wetland Hydrolog	y Indicators:		
	lake, or tide o					Primary Indica	ators:		
	hotographs	9000				☑ Inund	lated		
LEW	riotograpiio					Satur	rated in uppe	er 12 inches	
☐ Other						☐ Wate			
☐ No recorde	i data availabi	e			***********	5 1l	ment deposit	ts	
Field Observatio	ns:					Drair	nage patterns	s in wetland	
Depth of surf	ace water:	<1		(in.)	Secondary In	dicators (2 o	or more required):	
Depth to free	water in pit:	0		(in.)	☐ Oxid	ized root cha	annels in upper 12 inc	ches
Depth to satu	•	0		(in.)		er-stained lea		
Dopsi to sate				<u> </u>	•		il soil survey -neutral test		
							-neutrai test er (explain in		
				(1000) 1000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		· · · · · · · · · · · · · · · · · · ·		
Remarks:									
1									
1									

SOIL S		······································		
Map unit name (series and phase):		Drainage class):	
Taxonomy (subgroup):		Field observati	ions confirm map type?	Yes № □ □
Profile Description:				
Depth (inches) Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-6	10YR4/2	10YR5/6	10%	clay
Hydric Soil Indicators:			oliona	
☐ Histosol		Concre	ettoris organic content in surface	lover in sandy soil
☐ Histic epipedon		- سب	irganic content in surface ic streaking in sandy solk	
Sulfidic odor		لسبا	on Local Hydric Soils Lis	
Aquic moisture		اسسا	on National Hydric Soils	
☐ Reducing condi ☑ Gleyed or low-c			(explain in remarks)	
Remarks:				
WETLAND DETERMINA	TION			
	Yes No			Yes No
Hydrophytic vegetation preser	it? 🔽 🗀	Is this sampling	point within a wetland?	
Wetland hydrology present?				
Hydric soils present?	Ø O			
Remarks: This is small area (15 ft long x Wetland A between the berm that water flows downslope in visit during the growing seaso	and Wetland A. This area to Wetland A during the gr	nad wettand charact owing season, rather	than ponding for a long of	

Project/Site: Applicant/Owner: nvestigator:	Pig's Eye Ra	III I CAFU				Date: 11/18/2005
• •	Marathon Pe					County: Ramsey
	KSW					State: MN
Do normal circumsles the site significar is there a potential (If needed, explain	ntly disturbed problem area	(atypical situa	tion)?			Community ID Wetland B Transect ID: Plot ID: SB-5 Circular 39 Type: 3/2 Cowardin: PEMC/B
/EGETATION	_		***************************************		T	
Dominant Plant S 1. Polygonum sp. 2. 3. 4. 5. 6. 7. 8. 9. 10. Percent of domina (excluding FAC-) Remarks: bare soil		& Cover 10	H H ACW or I	Indicator NI	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 100	
HYDROLOGY	<u> </u>	****				
✓ Recorded da	ita (describe	in remarks):				Wetland Hydrology Indicators:
	lake, or tide (Primary Indicators:
	notographs	y				inundated
C Other	- •					☐ Saturated in upper 12 inches ☐ Water marks
1	data availabi	le				Drift lines
Field Observation			<u> </u>	-		✓ Sediment deposits✓ Drainage patterns in wetland
Depth of surfa		None		(in.)	☑ Drainage patterns in wetland Secondary Indicators (2 or more required):
Depth to free	•	None			(in.)	1
'		16			(in.)	Water-stained leaves
Depth to satu	ialeu SUII;	10	<u></u>	······································	··· •• <i>j</i>	Local soil survey data FAC-neutral test Other (explain in remarks)

Map unit name (series and phase):		Drainage class:								
Taxonomy (subgroup):			Yes No Field observations confirm map type?							
Profile Description:										
Depth (inches) Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.						
0-16	10YR3/1			sand (sediment) with muck						
16-20	10YR2/1			clayey sand (sediment)						
Hydric Soil Indicators:										
Hydric Soil Indicators: Histosol										
WETLAND DETERMINATION	N									
	<u>Yes No</u>			Yes No						
Hydrophytic vegetation present?		is this sampling	point within a wetland?							
Wetland hydrology present?										
Hydric soils present?				MATERIAL STATE OF THE STATE OF						
Remarks:										

Project	/Siler Pinto	Eye Rail Yaı	'd				Date: 11/18/2005	
		athon Petrole	~~				County: Ramsey	
Investi					<u></u>		State: MN	
Do nor is the s	mal circumstance site significantly di e a potential proble eded, explain on re	s exist on the sturbed (atyp em area?		ition)?		Community ID Wetland Transect ID: Plot ID: SB-6 Circular 39 Type: Cowardin:	B-upland	
/EGE	TATION	***************************************				1		
	ominant Plant Species entaurea biebersteinil	į	<u>%</u> <u>Cover</u> 20	Stratum H	Indicator UPL	1.		
•	ster sp.		20	Н	NI	2.		
3. Sc	olldago species		20	Н	NI	3.		
4. <u>T</u>	araxacum officinale		20	<u>H</u>	FACU	4.		
5.						5.		
6.						6. 7.		
7. •						8.		
8. 9.						9.		
9. 10.						10		
	ent of dominant sp	ecles that are	OBL, F	ACW or I	AC			
(exclu	uding FAC-)	_ _			,	0-50		
Rema	ark s :							
	ROLOGY						Wetland Hydrology Indicators:	
\mathbf{V}	Recorded data (d						Primary Indicators:	
	Stream, lake,		3				☐ Inundated	
	Aerial photog	raphs					Saturated in upper 12 inches	
	☐ Other						☐ Water marks ☐ Drift lines	
	No recorded data	avallable				on the state of th	Sediment deposits	
Field	l Observations:					:	Drainage patterns in wetland	
	Depth of surface w	ater: None)			(in.)	Secondary Indicators (2 or more require	
	Depth to free wate	r in pit: None)			(in.)	Oxidized root channels in uppe	r 12 inches
t	Depth to saturated	soil: None	<u> </u>			(in.)	☐ Water-stained leaves ☐ Local soil survey data	
							FAC-neutral test	
							Other (explain in remarks)	
Ren	narks:						3	
							•	

ap unit name eries and phase):		Drainage class	•	
exconomy (subgroup):		Field observati	Yes № □	
rofile Description:				
Depth (inches) Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-6	10YR3/1			sandy loam
6+				rock/gravel refusal
☐ Histosol ☐ Histic epipedon ☐ Sulfidic odor ☐ Aquic moisture reg ☐ Reducing condition ☐ Gleyed or low-chro	ns	Organ	organic content in surface ic streaking in sandy soils on Local Hydric Soils Lis on National Hydric Soils (explain in remarks)	t
Remarks:				
	ON			
Remarks: WETLAND DETERMINATI	<u>Yes No</u>	le this compline	noint within a wetland?	<u>Yes</u> <u>No</u>
Remarks: WETLAND DETERMINATION Hydrophytic vegetation present?	Yes No □ ☑	is this sampling	g point within a wetland?	Yes No □ ☑
Remarks: WETLAND DETERMINATI	<u>Yes No</u>	is this sampling	g point within a wetland?	

Project/Site:	Pig's Eye Rail Ya	ırd					Date: 11/1	8/2005				
Applicant/Owner:	Marathon Petrole	um					County: Ramsey					
Investigator:	KSW						State: MN					
	***************************************			<u>Yes</u>	<u>No</u>		Community IE) Wetlai	nd C			
Do normal circums	tances exist on the	e site?		Ø			Transect ID:					
Is the site significa		oical situa	ition)?		V		Plot ID: SB-7					
Is there a potential					\mathbf{Z}		Circular 39 Type: 2/3					
(If needed, explain	on reverse).						Cowardin:	PE	VB/C			
VEGETATION			***************************************		************							
D		<u>%</u>	Chalum	Indicator		Other Plant Species		<u>%</u> Cover	Stratum	Indicator		
Dominant Plant S	pecies	<u>Cover</u> 45	<u>Stratum</u> H	OBL	1.	Polygonum sp.		5	Н	NI		
Typha species Phalaris arundina	acea	50		FACW+	2.	, og gorram op						
3.	7000				3.							
4.					4.							
5.					5.							
6.					6.							
7.			•		7,							
8.					8.							
9.					9.							
10.			()		10).			***********			
1	ant species that are	OBL, F	ACW or F	AC	400		•					
(excluding FAC-)		,,,, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>			100			.,	·····			
Remarks:												
				<u> </u>								
HYDROLOGY				***************************************		**************************************				2.5.12.4XX		
Recorded da	ta (describe in rer	narks):				Wetland Hydrology						
Stream,	lake, or tide gauge	2				Primary Indica						
Aerial pt	notographs					☐ Inund	ated ated in upper 12	2 inches				
Other							r marks	_ mones				
No recorded	data available		,			Drift II						
Field Observation	s:	<u> </u>	***************************************		**********		nent deposits age patterns in	wetland				
Depth of surfa				(in.)		licators (2 or m		red):			
Depth to free	water in pit: 30				in.)	1	zed root channe			hes		
Depth to satur			***************************************		in.)	• —	r-stained leaves					
Depti, to eath,	110110			······································		* -	soil survey date	а				
							neutral test · (explain in rem	arks)				
Remarks:				ji militi			-					
i ionalito.												
1												

Map unit name series and phase):		Drainage class	3 ;	
Faxonomy (subgroup):		Field observat	ions confirm map type?	Yes No
Profile Description:				
Depth (inches) Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Molst)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-16	10YR4/2	10YR5/6		silty sand
16-32	10YR4/1			silty sand
Hydric Soll Indicators:				
☐ Histosol		Concr		t to according of t
☐ Histic epipedon		٠	organic content in surface lic streaking in sandy soils	
Sulfidic odor Aquic moisture regin	ne		on Local Hydric Soils Lis	
☐ Reducing conditions		لسما	on National Hydric Soils	
☑ Gleyed or low-chrom		Other	(explain in remarks)	
Remarks:				
				######################################
WETLAND DETERMINATIO	N			
	<u>Yes No</u>			<u>Yes</u> <u>No</u>
Hydrophylic vegetation present?		is this sampling	point within a wetland?	$oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{ol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{ol}oldsymbol{oldsymbol{ol}}}}}}}}}}}}}}}}} $
Wetland hydrology present?				
Hydric soils present?				
Remarks:				

Project/S	Site:	Pig's Eye R	ail Yard				Date:	11/18	/2005	
Applican	nt/Owner:	Marathon P	etroleum		 		County:	Rams	еу	
Investiga	ator:	KSW					State:	MN		
Is the si Is there (If need	te significar a potential led, explain	tances exist on the disturbed problem area on reverse).	(atypical situa a?	tion)?	<u>No</u>		Commu Transec Plot ID: Circular Coward	et ID: · 39 Ty;	Wetland C-up SB-8 pe:	land
VEGE1	<u> </u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			 -					
1. Pha 2. Cirs. 3. Lotu 4. 5. 6. 7. 8. 9. 10. Percen	ling FAC-)	s s	20 Seat are OBL, FA	Stratum H H ACW or F	1. 2. 3. 4. 5. 6. 7. 8. 9. 10					
	ROLOGY			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,			,		
***************************************		ta (describe	in remarks):			Wetland Hydrolog	y Indicato	rs:		
	Stream, Aerial pt Other	lake, or tide notographs	gauge			Primary Indica Inund Satur Wate Drift	ators: lated rated in up r marks lines ment depo	oper 12		
	Observation					☐ Drain	age patte	erns in 1	wetland	
l	pth of surfa		None		 (in.)	Secondary In				
1	pth to free		None None		 (in.) (in.)	☐ Wate ☐ Loca ☐ FAC	ized root o er-stained I soil surv -neutral te er (explain	leaves ey data est	ð	nches
Rema	ırks:									

Map unit name (series and phase):		Drainage class	i:	
Taxonomy (subgroup):		Field observat	Yes No	
Profile Description:				
Depth (inches) Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-24	10YR7/1	10YR6/6 and 10YR3/1	10% each	clay
24+		-		rock refusal
Hydric Soil Indicators: Histosol Histic epipedon Sulfidic odor Aquic moisture regir Reducing conditions Gleyed or low-chron	3	Organ	etions organic content in surface ic streaking in sandy soils on Local Hydric Soils Lis on National Hydric Soils (explain in remarks)	; !
Remarks:		and de supporte in the contract of the contrac	naguna panlaruni da kasaci kada paya kerinta kerinca kiring kepada maranca da m	
Remarks: WETLAND DETERMINATION)N			
	ON Yes No			Yes No
		is this sampling	point within a wetland?	Yes No □ ☑
WETLAND DETERMINATIO	<u>Yes No</u>	is this sampling	point within a wetland?	

Proi	ect/Site:	Pig's Eye Rail	Yard		**************************************			Date:	11/18	/2005		
·	licant/Owner:	Marathon Petr						County:	Rams	ey		
	estigator:	KSW						State:	MN	a,car		
Do i	normal circums	tances exist on ntly disturbed (a problem area? non reverse).	atypical situa	tion)?		<u>%</u>]]		Commun Transec Plot ID: Circular Cowardi	t ID: 39 Tyr	SB-9		
VE	SETATION											
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. Pe	Dominant Plant S Phalaris arundina Phragmites austr	icea	Cover 35 35 35 are OBL, FA	Stratum H H		1. 2. 3. 4. 5. 6. 7. 8. 9. 100	Other Plant Species Carex hystericina Aster sp. Solidago species			% Cover 10 10 10	Stratum H H	Indicator OBL NI NI
	'DROLOGY		**************************************			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					MIN	
		nta (describe in	remarks).				Wetland Hydrolog	y Indicato	rs:	M aria hamany, 1944		***************************************
K							Primary Indica					
		lake, or tide ga hotographs	inña				Inunc					
	✓ Aerial p	notograpmo						rated in up er marks	per 12	inches!		
	لسبا	l dede evelleble					☐ Wate					
	f	l data avallable			<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>			ment depo				
Fi	eld Observation		000		r	in.)		nage patte				
	Depth of surfa	***	one				Secondary In					haa
	•	water in pit: N	***************************************		······	in.)		ized root o er-stained			oer 12 mc	aes
	Depth to satu	rated soil: N	one		(in.)	Loca	l soil surv -neutral te er (explain	ey data est	a		
R	emarks:			geograph and he de								

series and phase):		Drainage class	3 ;				
Faxonomy (subgroup):		Field observations confirm map type?					
Profile Description:							
Depth (inches) Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.			
0-12	10YR3/2	10YR3/1 and 10YR4/6	20% and 10%	sandy muck			
12+				refusal			
Hydric Soil Indicators:							
✓ Histosol☐ Histic epipedon☐ Sulfidic odor☐ Aquic moisture reg☐ Reducing condition	าร	Organ	etions organic content in surface nic streaking in sandy soils on Local Hydric Soils Lis I on National Hydric Soils (explain in remarks)	s t			
☑ Gleyed or low-chron	oma colors						
	ON						
Remarks: WETLAND DETERMINATI	ON Yes No			Yes No ☑ □			
Remarks: WETLAND DETERMINATI Hydrophytic vegetation present?	ON Yes No ☑ □		point within a wetland?	Yes No ☑ □			
Remarks: WETLAND DETERMINATI	ON Yes No						